AMENDMENTS

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-37. (canceled)

38. (currently amended) A [[An]] ball grid array package, comprising:

a semiconductor chip/die affixed to a ball grid substrate; the ball grid substrate having a series of balls; and

a heat spreader mounted to the semiconductor clip/die and the ball grid substrate opposite the series of balls; the heat spreader having a pattern of slots, not completely piercing the heat spreader, therein.

- 39. (original) The structure of claim 38, wherein the semiconductor chip is a silicon semiconductor chip or a germanium semiconductor chip.
- 40. (original) The structure of claim 38, wherein the semiconductor chip is a silicon semiconductor chip.
- 41. (original) The structure of claim 38, wherein the balls are comprised of 63Sn37Pb, 96.5Sn3.5Ag, 5.5Sn3.8Ag0.7Cu or 96.2Sn2.5Ag0.8Cu0.5Sb; and the heat spreader is comprised

of copper, aluminum, chromium plated on copper, chromium plated on aluminum or nickel plated on copper.

- 42. (original) The structure of claim 38, wherein the balls are comprised of 635n37Pb or 96,SSn3.5Ag; and the heat spreader is comprised of nickel plated on copper.
 - 43. (original) The structure of claim 38, wherein the balls are comprised of 63Sn37Pb.
 - 44. (original) The structure of claim 38, wherein the balls are comprised of 96.5Su3.5Ag.
- 45. (original) The structure of claim 38, wherein the semiconductor chip/die is a silicon semiconductor chip/die and has a coefficient of thermal expansion of from about 2.5 to 3.5; and the heat spreader has a coefficient of thermal expansion of from about 10 to 25.
- 46. (original) The structure of claim 38, wherein the semiconductor chip/die is a silicon semiconductor chip/die and has a coefficient of thermal expansion of about 2.8; and the heat spreader has a coefficient of thermal expression of about 17.0.
- 47. (original) The structure of claim 38, wherein the semiconductor chip/die is a germanium semiconductor chip/die and has a coefficient of thermal expansion of from about 5.5 to 6.5; and the heat spreader has a coefficient of thermal expansion of from about 10 to 25.

- 48. (original) The structure of claim 38, wherein the semiconductor chip/die is a germanium semiconductor chip/die and has a coefficient of thermal expansion of about 6.1; and the heat spreader has a coefficient of thermal expansion of about 17.0.
- 49. (currently amended) The structure of claim 58, wherein the slots penetrate the heat spreader from about 25 andto 85%.
- 50. (original) The structure of claim 38, wherein the slots penetrate the heat spreader from about 50 to 75%.
- 51. (currently amended) The structure of claim 38, wherein the pattern of slots include rows spaced apart from about 1.0 and to 5.0 mm; the slots-28 comprising each row are spaced apart from each other from about 0.5 to 2.5 mm.
- 52. (currently amended) The structure of claim 38, wherein the pattern of slots include rows spaced apart from about 1.5 to 2.5 mm; the slots comprising each row are spaced apart from each other from about 0.7 and to 1.5 mm.
- 53. (currently amended) The structure of claim 38, wherein the pattern of slots-28 are arranged in perpendicular/perpendicular rows; a circular pattern; a radiating pattern; a rectangular pattern, a square pattern, a concentric circular pattern, a concentric square pattern, or a concentric octagonal pattern.

- 54. (currently amended) The structure of claim 38, wherein the pattern of slots—28 are arranged in: parallel/perpendicular rows.
- 55. (original) The structure of claim 38, wherein the ball grid array package is a super ball grid array package, an HSBGA package or an HSFCBGA.
- 56. (original) The structure of claim 38, wherein the ball grid array package is a super ball grid array package.